

EMS-Grivory Grivory® XE 4155 black 9992 PA612-I

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4155-black-9992-PA612-I.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Water Absorption	2.3 %	2.3 %	ISO 62
Moisture Absorption	1.00 %	1.00 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	conditioned, 15s; ISO 868
	72	72	dry, 15s; ISO 868
Tensile Strength, Yield	35.0 MPa	5080 psi	dry; ISO 527-1/-2
	40.0 MPa	5800 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	20 %	20 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.950 GPa	138 ksi	conditioned; ISO 527-1/-2
	1.50 GPa	218 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact Unnotched	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	2.00 J/cm ²	9.52 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	2.00 J/cm ²	9.52 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	180 µm/m-°C	100 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
Melting Point	213 °C	415 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	37.0 kV/mm	940 kV/in	dry; IEC 60243-1

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Automotive electr. and electronics, lighting	
	Compressed air systems	
	Cooling and climate control	
	Hydraulic systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
	Profile Extrusion	

Product Attributes Descriptive Properties	High viscosity Value	Comments
	Hydrolysis resistant	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	

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